



Underneath the Sycamore

by Arya Akhavan (December 2012)

Angles for R.I. = 1.650

115 + 24 girdles = 139 facets

3-fold, mirror-image symmetry

96 index

L/W = 1.043 T/W = 0.334 U/W = 0.313

P/W = 0.524 C/W = 0.219

Vol./W³ = 0.274

PAVILION

P1	43.50°	02-06-10-14-18-22-26-30-34-38-42-46-50-54-58-62-66-70-74-78-82-86-90-94	Cut to centerpoint.
G1	90.00°	02-30-34-62-66-94	Set stone size.
G2	90.00°	04-28-36-60-68-92	Meet P1, G1
G3	90.00°	06-26-38-58-70-90	Meet P1, G2
G4	90.00°	08-24-40-56-72-88	Meet P1, G3
P2	65.00°	08-24-40-56-72-88	Meet P1, G4 (level girdle)
P3	65.96°	06-26-38-58-70-90	Level girdle.
P4	66.51°	04-28-36-60-68-92	Level girdle.
P5	66.69°	02-30-34-62-66-94	Level girdle.
P6	42.00°	12-20-44-52-76-84	Meet P1, P2, P3

CROWN

C1	45.00°	02-30-34-62-66-94	Set girdle width.
C2	45.00°	04-28-36-60-68-92	Level girdle.
C3	45.00°	06-26-38-58-70-90	Level girdle.
C4	45.00°	08-24-40-56-72-88	Level girdle.
C5	42.72°	05-27-37-59-69-91	Meet G2, G3, C2, CC3
C6	32.65°	15-17-47-49-79-81	Meet C4, G4
C7	33.00°	03-29-35-61-67-93	Meet C1, C2, C5
C8	29.09°	01-31-33-63-65-95	Meet C1, C7
C9	23.71°	15-17-47-49-79-81	Meet C5, C6, C7
C10	22.00°	08-24-40-56-72-88	Meet C5, C6, C7, C9
T	0.00°	Table	Meet C9, C10

I have a piece of peridot that's been sitting under my bed for the past year, and I've just been too lazy to write a design for it. Well, I finally wrote it out, but I'm not sure if my machine is accurate enough to cut this! Ah well...

This works in materials from feldspar to rutile (RI = 1.52 - 2.62) with no changes.

Suggested size = 8-12 mm

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